

Understanding your **Systems** with **Bytesize Architecture Sessions**



LAST Conf - Melbourne
November 2025



Andrea Magnorsky
www.roundcrisis.com

Agenda



This workshop is about learning to work together to understand our systems better by creating visual models

- Intro
- Bytesize Session - Musicats
- Overview of C4
- Bytesize Session - Context Diagram
- Q&A

Agenda

A photograph of a presentation stage. A large screen displays the title "The Guide Out of Hell" and several principles. A green arrow points from the "Agenda" title to the screen. Two green rounded rectangles highlight specific principles on the screen.

The Guide Out of Hell

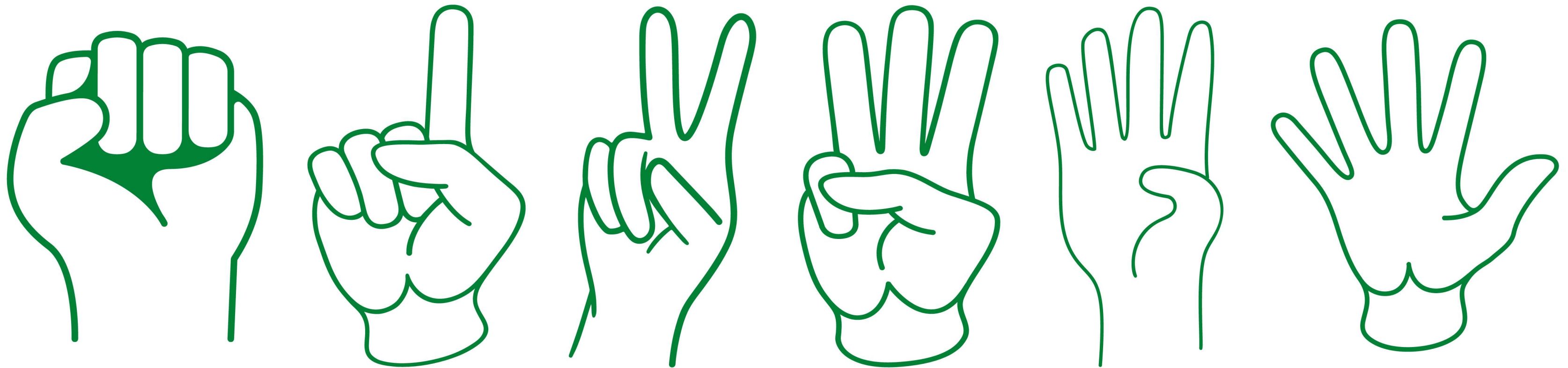
- You don't need the full map**
Just the next step. Clarity emerges through action, not endless planning.
- Start with what is real**
Not what is written. Understand the system as it actually operates, not as the org chart suggests.
- Reduce noise, then create alignment**
Clarity precedes coordination. You can't align around fog.
- Use scaffolding you can remove later**
Temporary structures enable transformation. Don't mistake the scaffold for the building.
- Choose truth over comfort**
Honest assessment of reality, however uncomfortable, beats pleasant delusion every time.
- And keep walking**
Forward momentum matters more than perfect direction. Movement creates learning. Learning creates clarity.

By following these principles, you can confidently navigate complexity and lead your organization out of chaos, one step at a time.

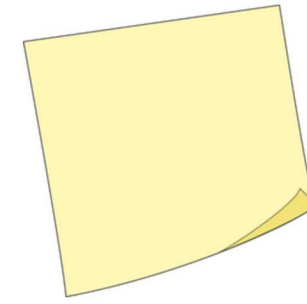
Hi 🖐️



Close your eyes, take a second raise your hand answering the question: How comfortable do you feel diagramming your systems?



Answer this in a sticky note



Imagine today you learn exactly what you need.

**What are things you want to understand about your systems?
(1 idea per sticky note)**



About Andrea

Programmer and Creator of Bytesize Architecture Sessions



- Programming in the industry since 2001
- Co-founded PC & Console Games Company in Ireland
- Contracting and Consulting since 2018
 - E-Commerce
 - Broadcasting media
 - Finance
 - Scaleups
- Moved to Aotearoa, NZ in 2024

Andrea Magnorsky
www.roundcrisis.com



You ship what is in your programmers' brains.



Andrea Magnorsky - 2021



**“It’s not the domain experts knowledge
that goes into production, it’s the
assumption of the developers that goes
into production.”**



Alberto Brandolini - 2019*

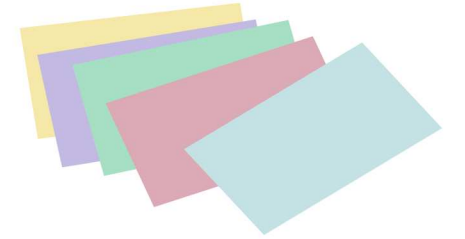
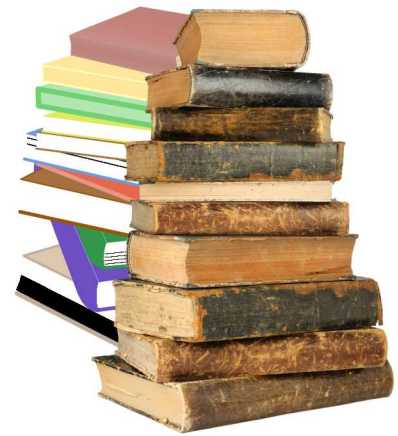
***or before**

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Knowledge workers are workers whose main **capital is knowledge. These are workers whose job is to “*think for a living*”.**

Knowledge Stock



is the **store** of knowledge
you have developed or can
access.

...each pile represents a person's knowledge

Knowledge Flow



**... the lines represent knowledge sharing in ways
that change the system**

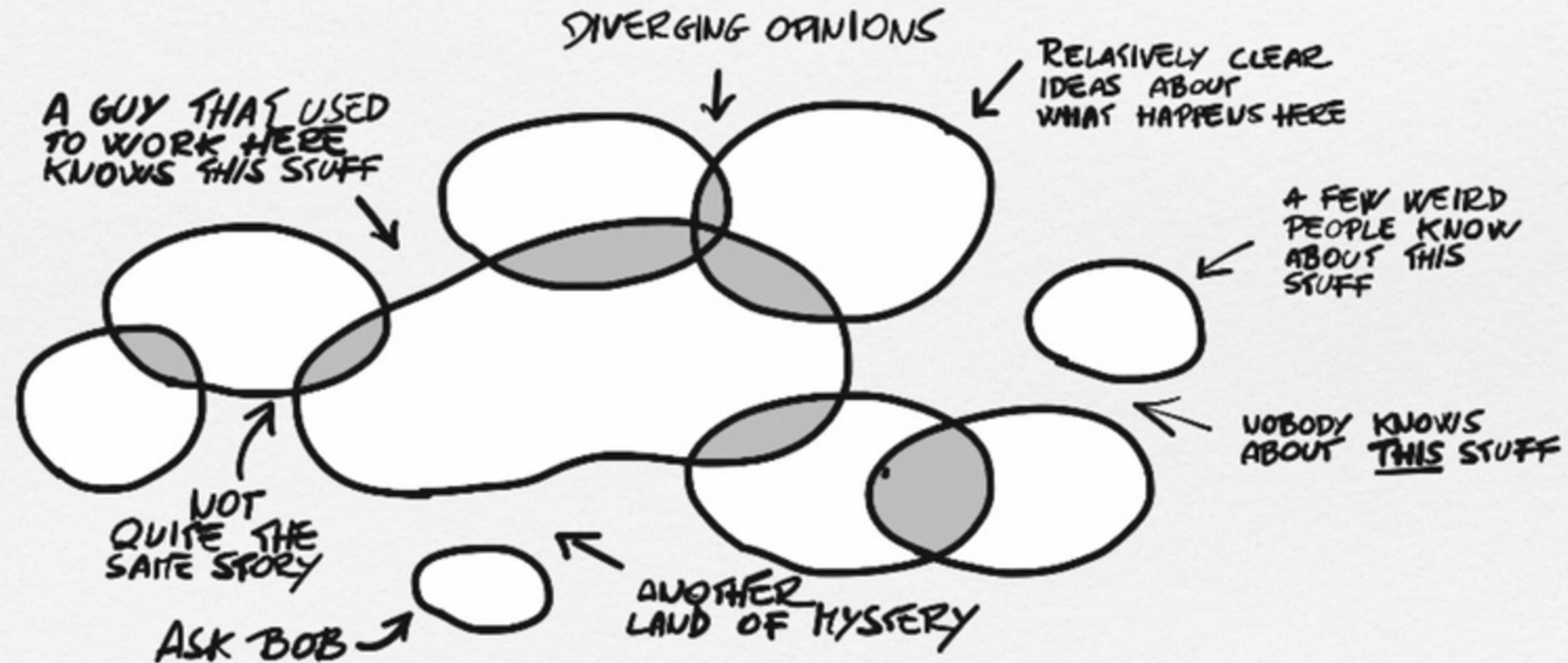


“Knowledge transfer among employees is thought to be a **crucial determinant** of an organisation’s capacity to utilise new knowledge and **innovate.**”

Liao et al., 2007



THE KNOWLEDGE DISTRIBUTION



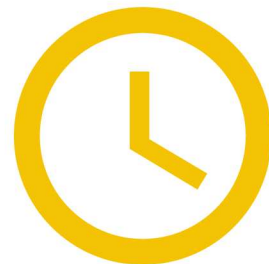
The way the knowledge is distributed during workshops.

Source: Presentation by A. Brandolini

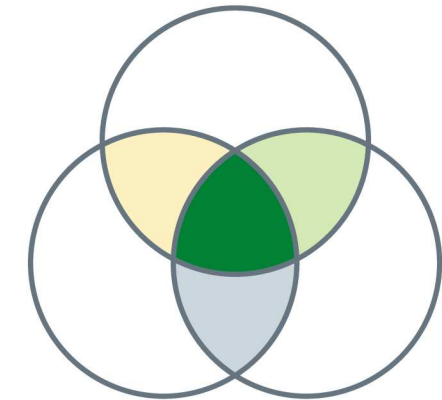
Added difficulty



- Changing teams
- Coordination between teams
- Conflicting long term plans

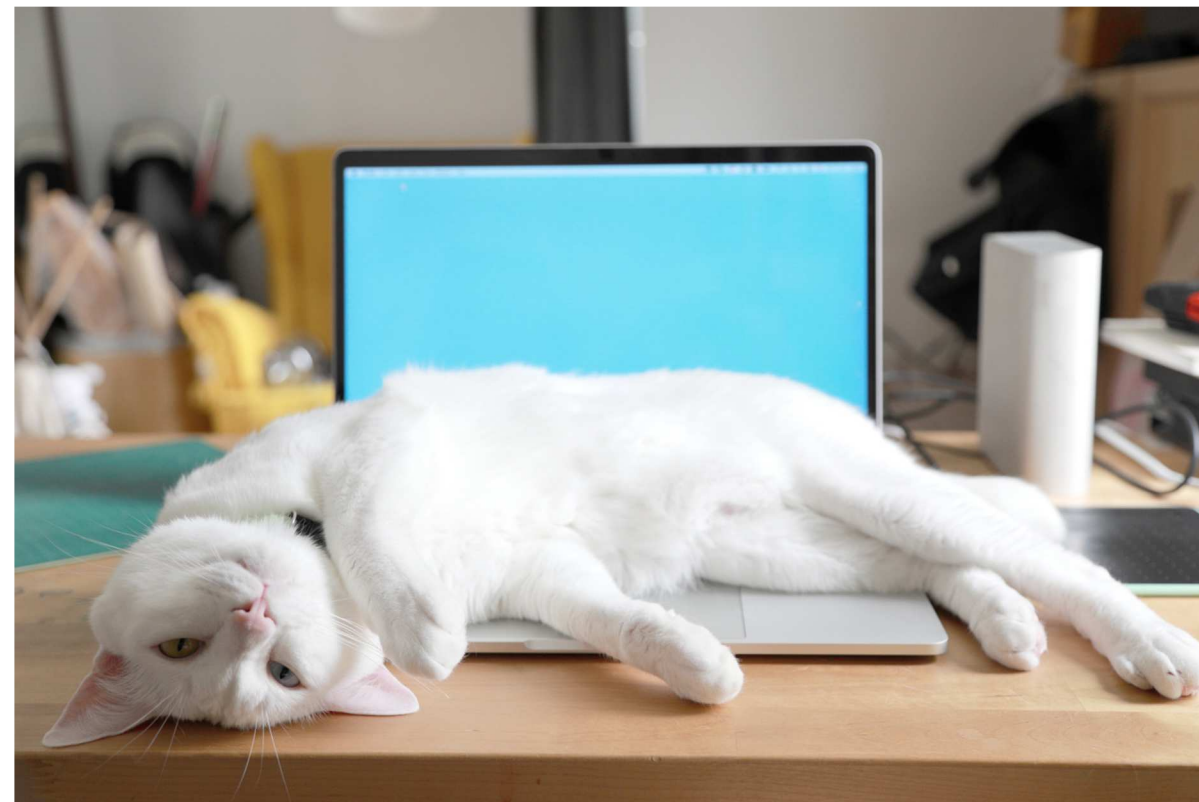


- Power
- Role dependent information variance





- Confirm you have the company description on your table
- Await instructions





1. Set the Goal

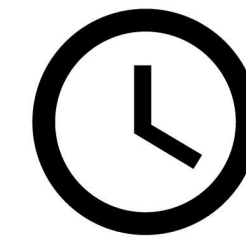


Understand how the
company works.
**Prepare some
questions for
Catherine Musi**
(1 question per
sticky)

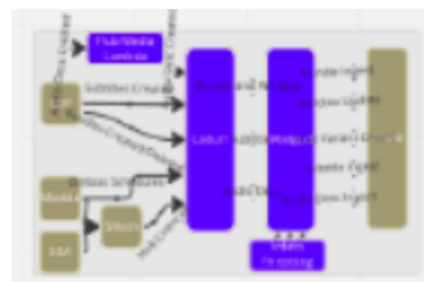
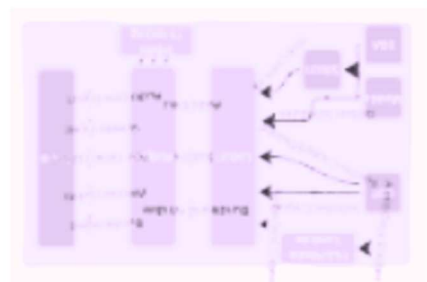
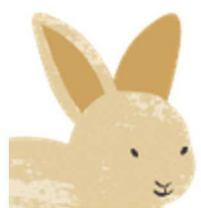
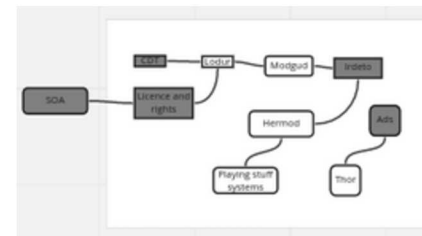
2. Alone Together



Work alone and silently
until the timer elapses

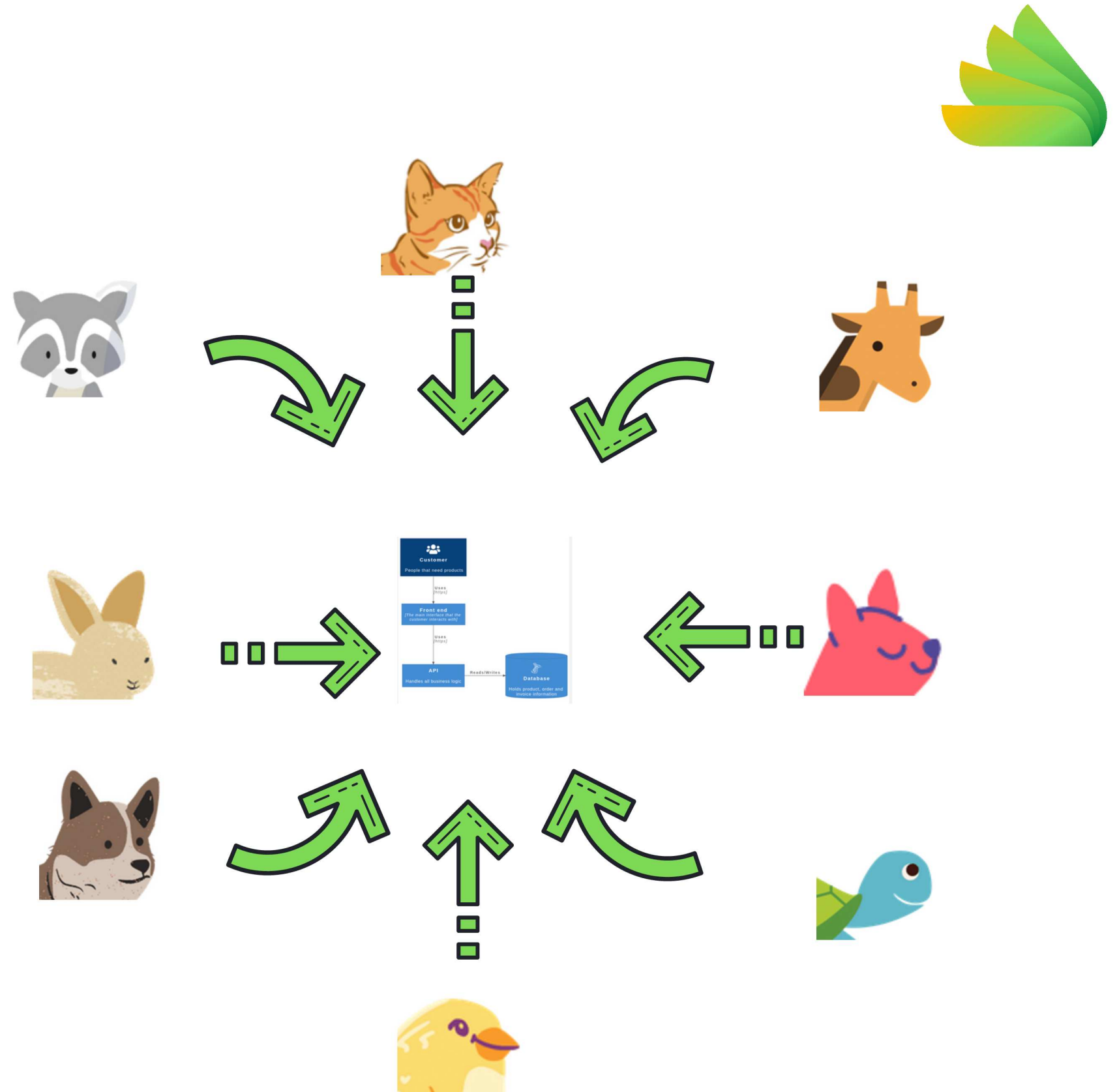


After the timer elapses
each attendee explains
their understanding and
shares questions un-
interrupted



3. Bring it together

Discuss and collect
all questions





🎵 Musicats 🐱: Interview Catherine Musi

Andrea Magnorsky
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Modelling **with** C4

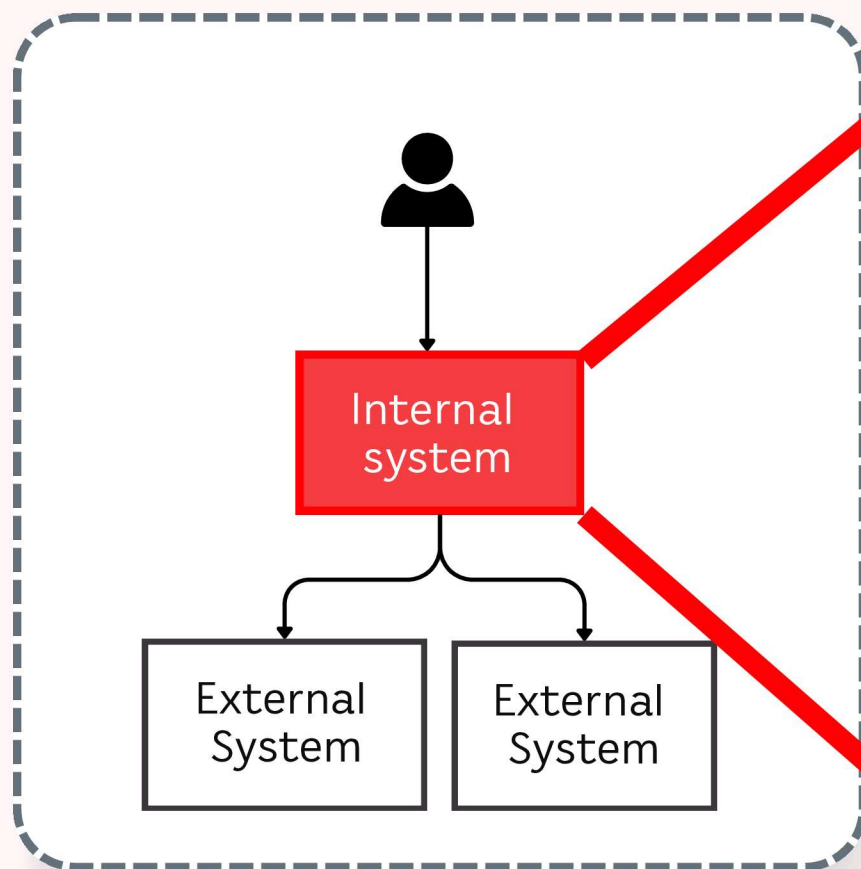


What is C4



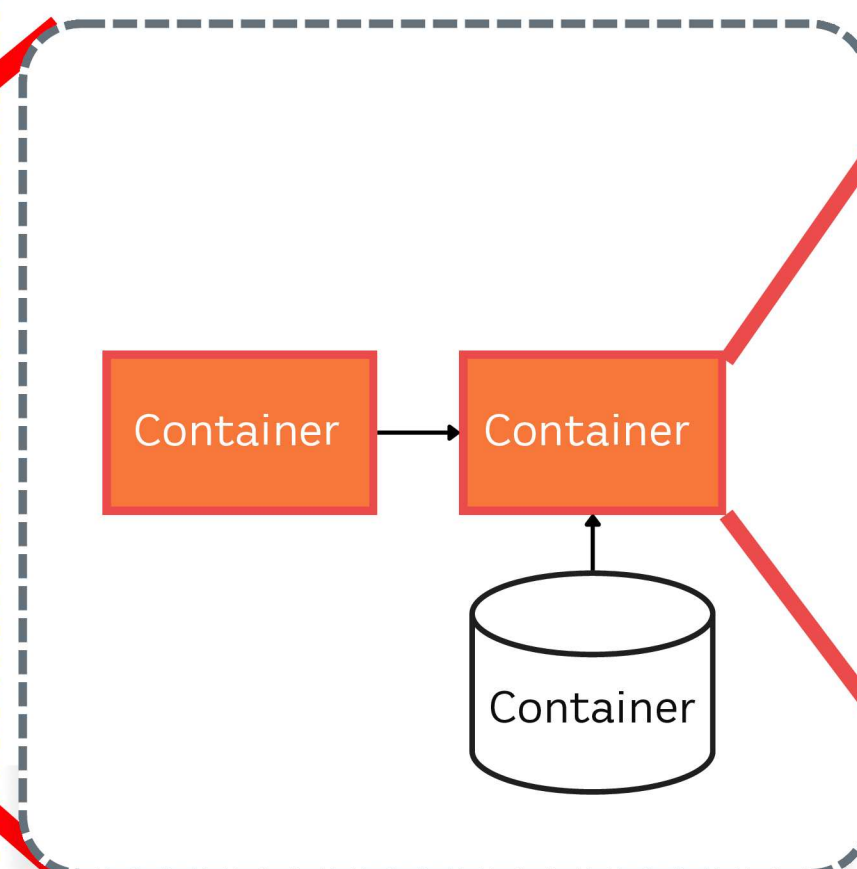
It's a framework for visualising software architecture in a hierarchal manner, using 4 layers:

1 Context



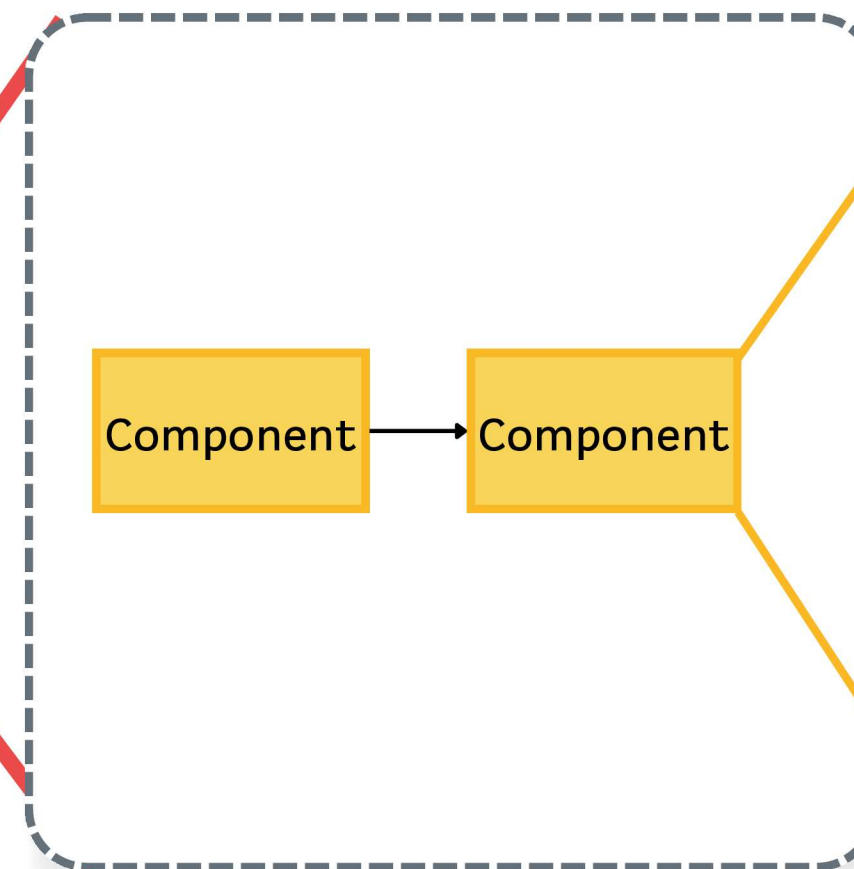
A high-level overview of the entire **system** and how it interacts with external entities.

2 Containers



View of the system broken down into its **containers** (e.g. database, application), and the relationship between them.

3 Components



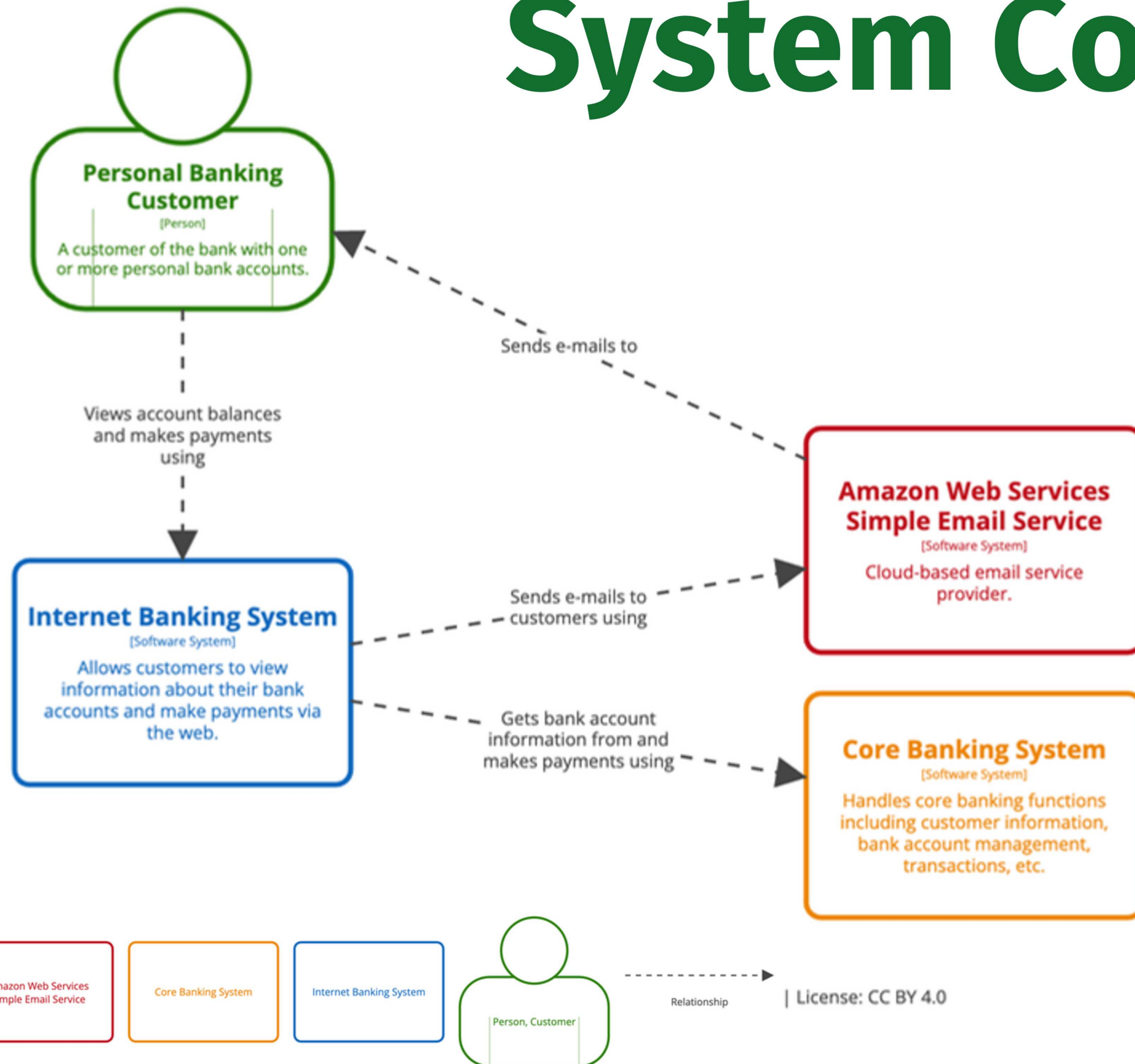
The internal **components** that make up each container and the relationship between each of them.

4 Code



How a component is implemented at the **code** level (e.g. classes, methods, functions).

System Context



- What is the scope of the system?
- Who is using it?
- What Integrations are supported



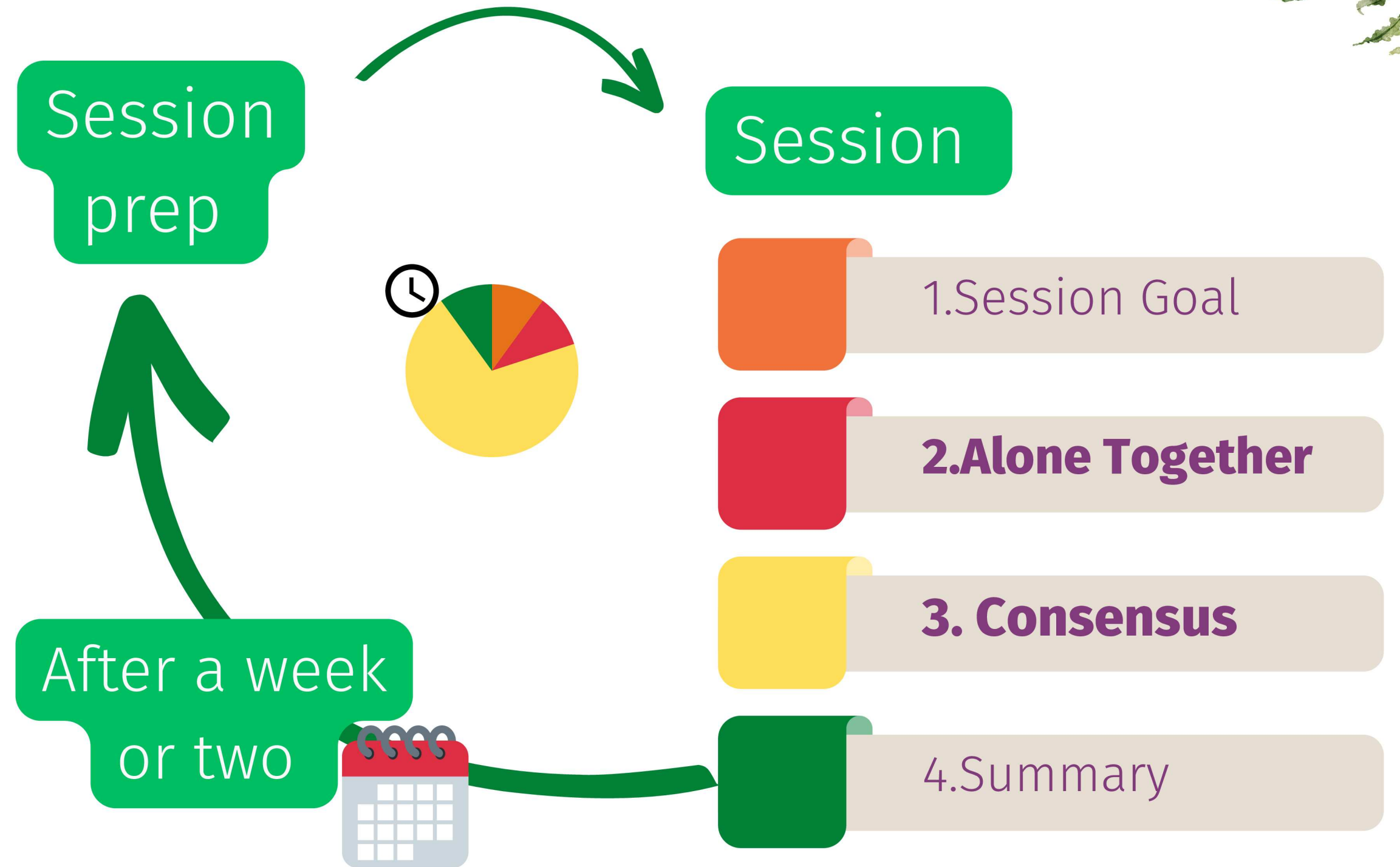
System Context for Musicats



Create a diagram that explains how this system is put together. Do a Systems Context diagram

Imagine you are part of Musicats, a company that is up and running. What does it currently look like?

Technology choices are whatever you think they might have implemented.



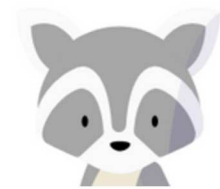
Before the Session

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- 1. Invite the team.**
- 2. Teach the team about modelling tool used**

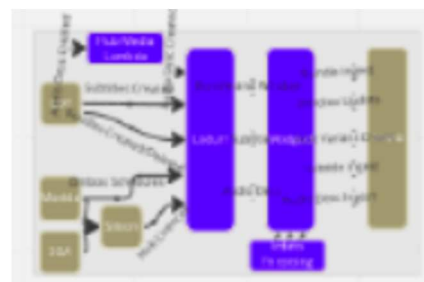
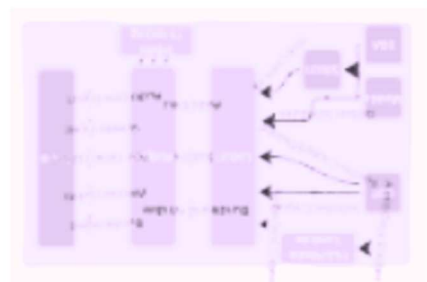
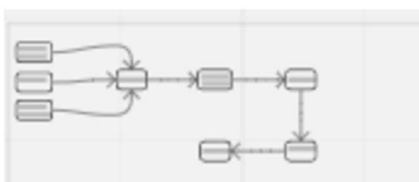
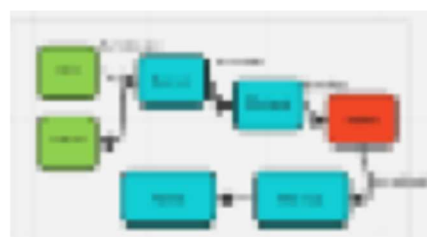
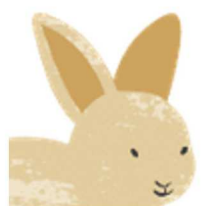
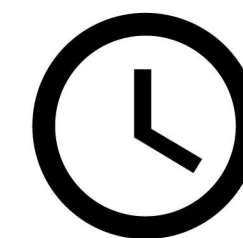
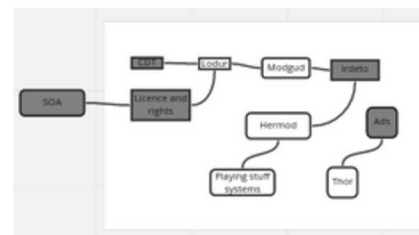
1. Goal



**Set the goal:
Create a context
diagram of the
system as it is.**



2. Alone Together



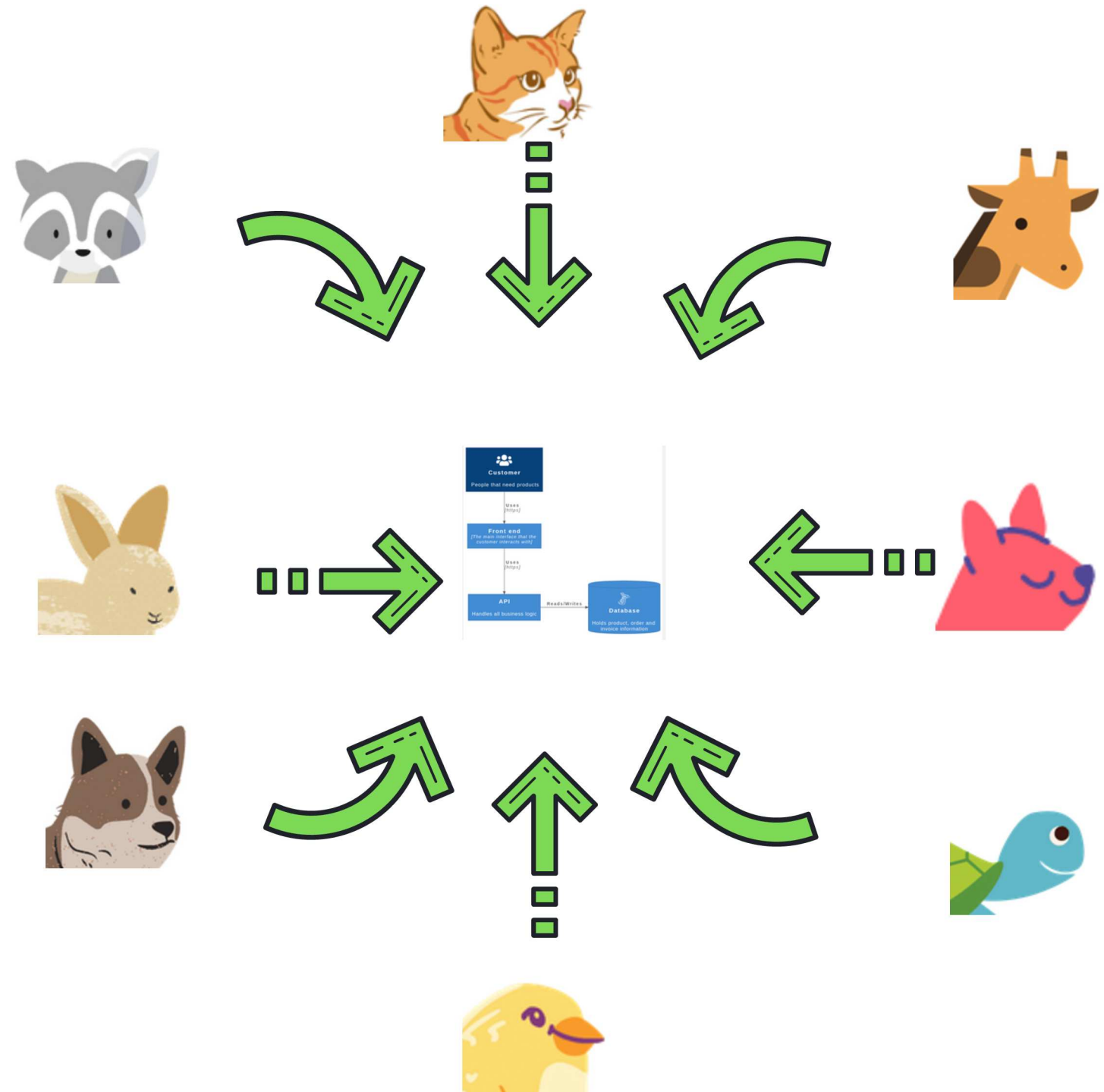
When the timer for 5 minutes elapses each attendee explains their model.

3. Consensus

.....

This is about
working together to
see where you get
to, not about
forcing consensus.

End session on time.



4. Summary

.....

Mini retro.

Use sticky notes

– prompts:

- **How did it go?**
- **What have you learned?**
- **How could it be better?**



Done!





Bytesize Architecture Sessions[T] is a workshop format



Why run Bytesize Sessions?

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1

**Knowledge about
your systems build
together**

2

Enabling format

3

**Creates design
tools**



Build systems in a **safe** **way**





**“A system is not the sum
of its parts, it's their
interactions”**



Russ Ackoff

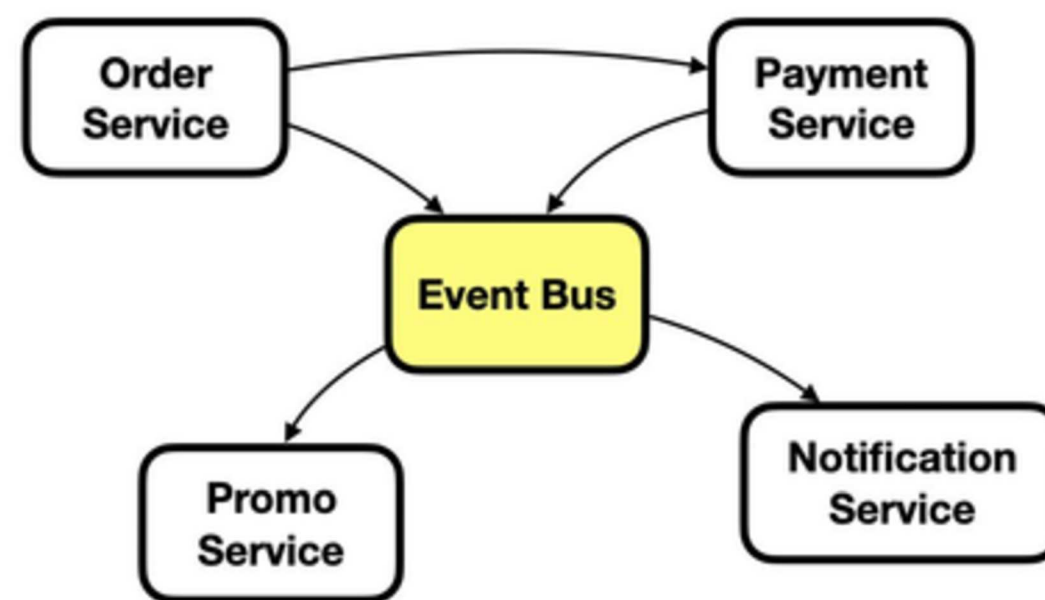
Source: youtube.com/watch?v=OqEelG8aPPk

Andrea Magnorsky
www.roundcrisis.com



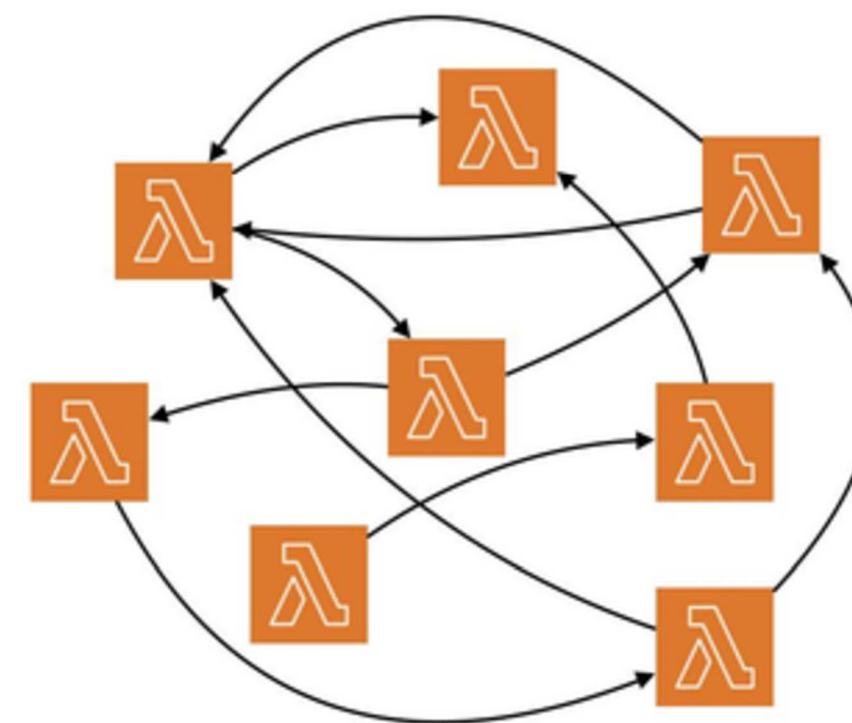
Yan Cui

Think in Systems.



Yan Cui

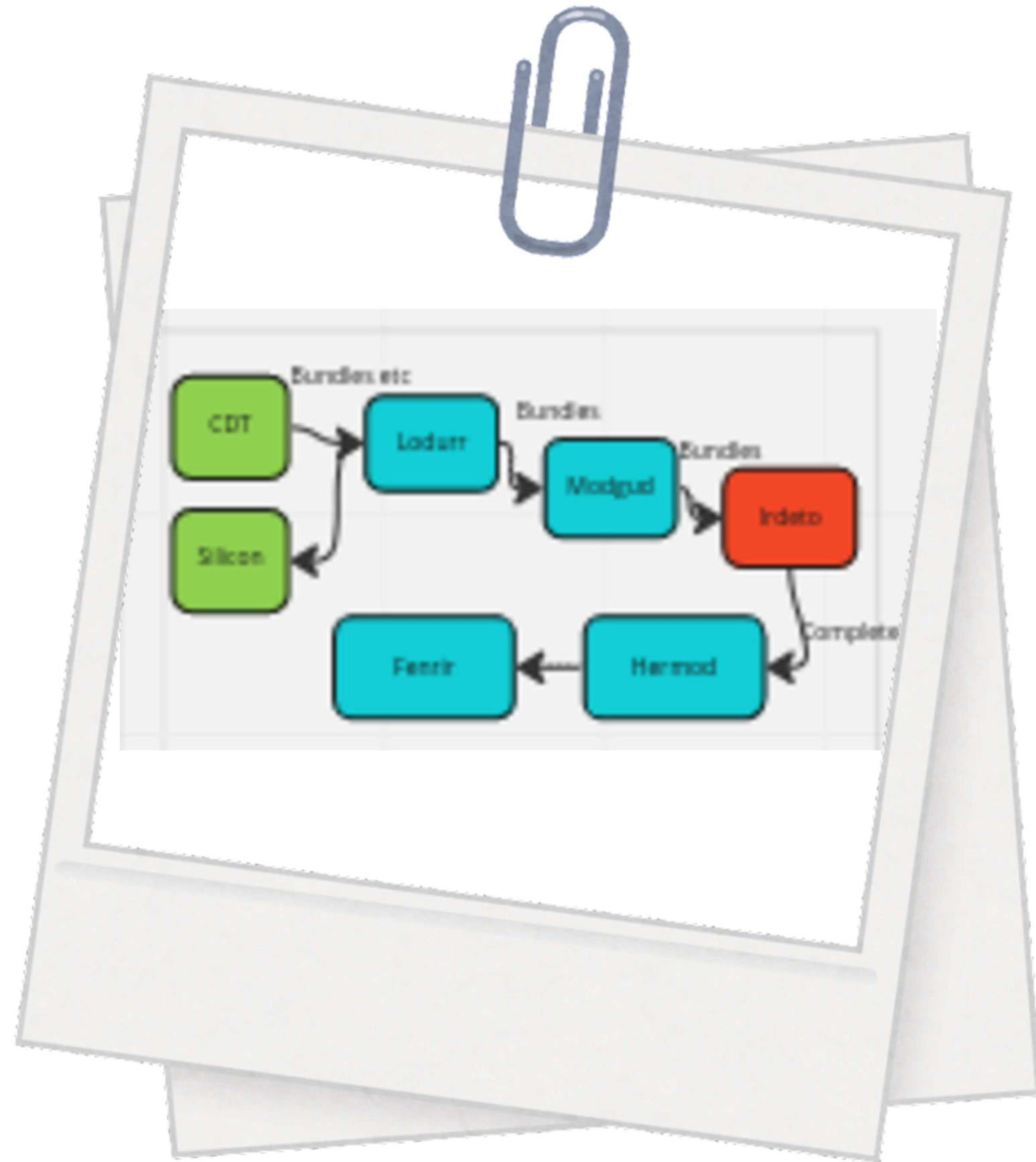
Not functions.





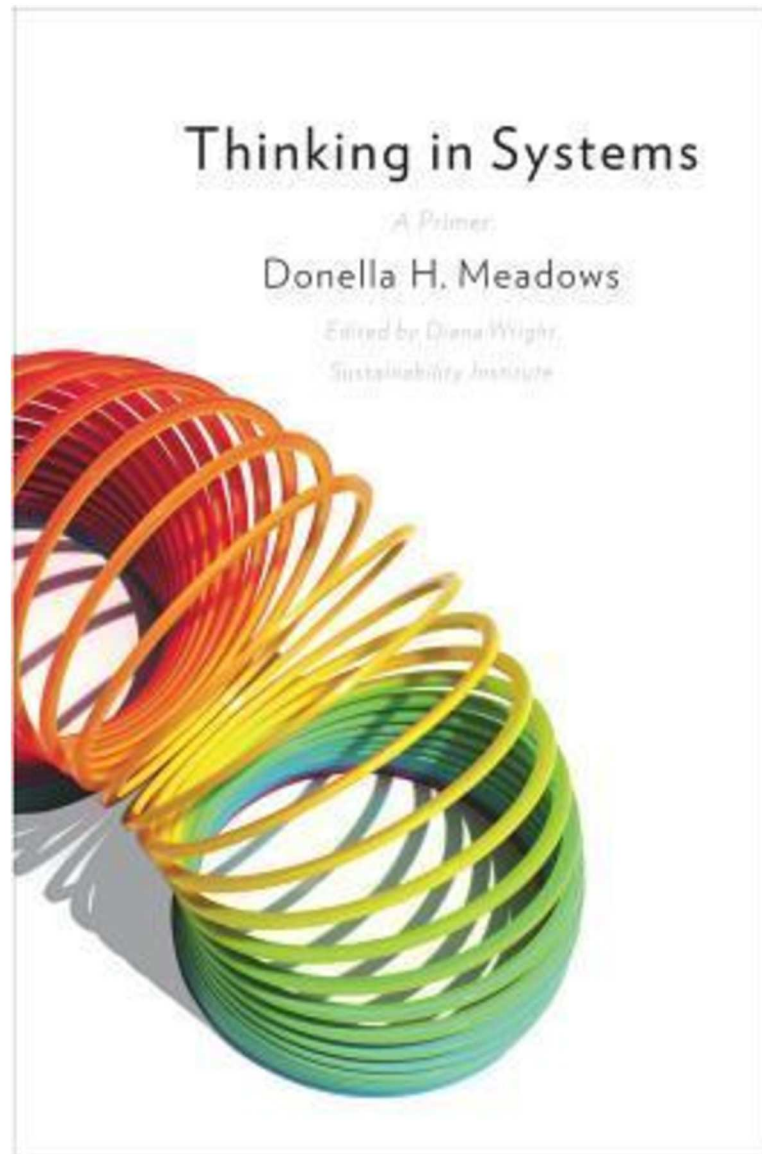
Modelling is difficult

**The product of a modelling
session is understanding**



Diagrams are a memento of a model

And it needs some fidelity



“Words and sentences must, by necessity, come only one at a time in linear, logical order. **Systems happen all at once.** They are connected not just in one direction, but in many directions simultaneously.”

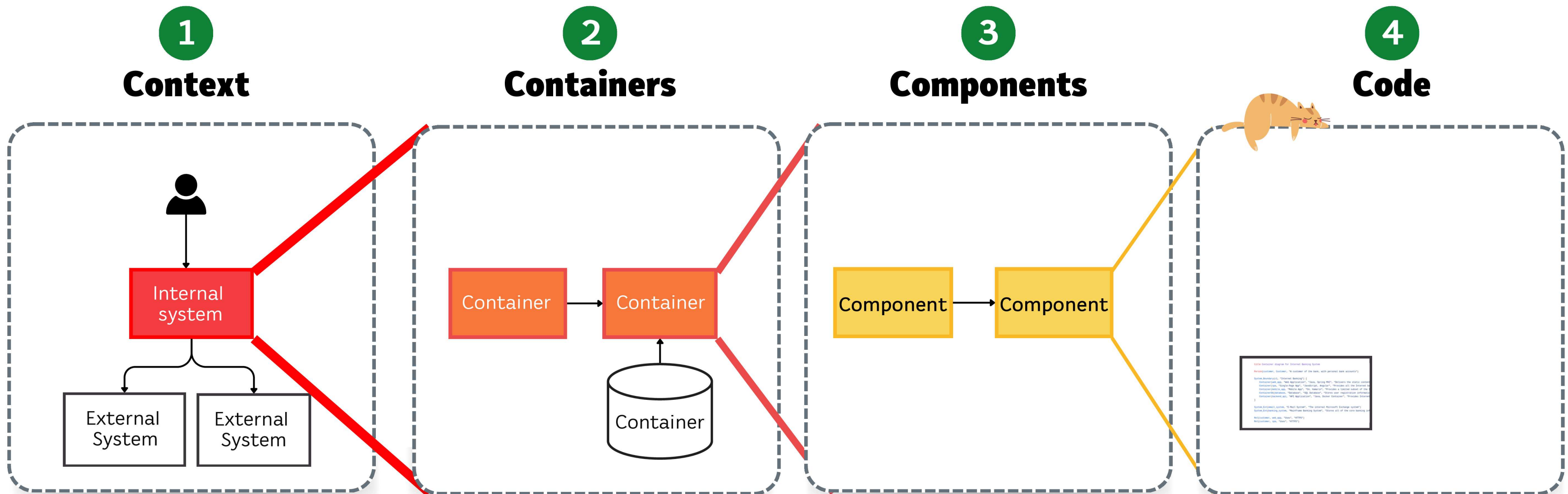


Thinking in Systems: A Primer **by Donella H. Meadows**

The rest of C4



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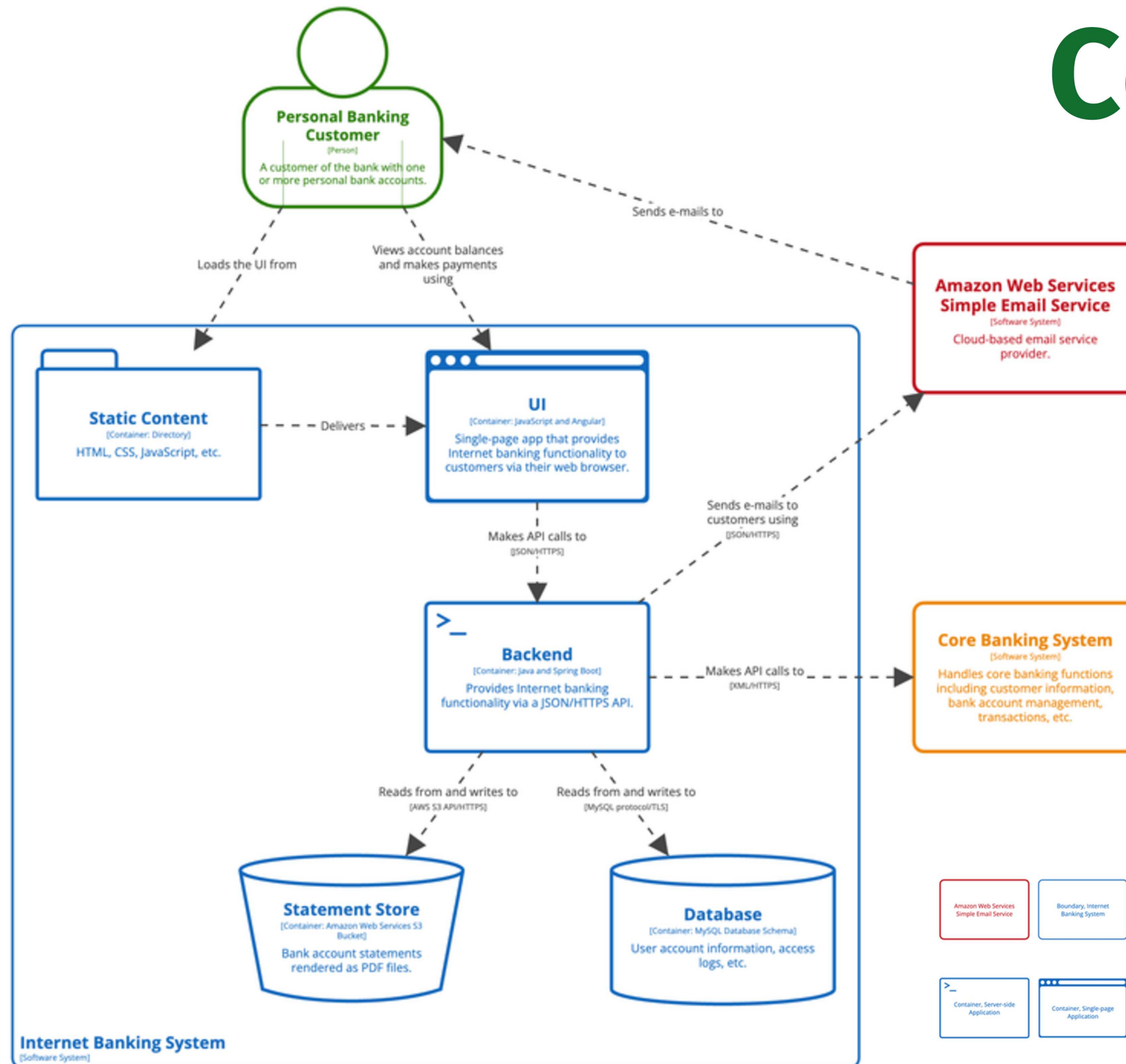
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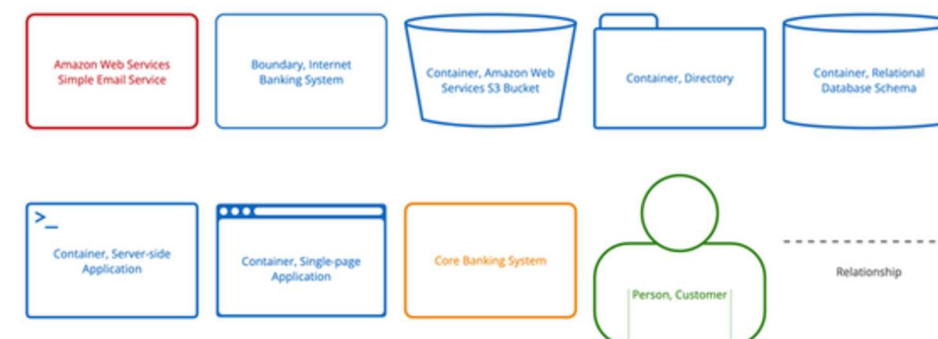
The internal **components** that make up each container and the relationship between each of them.

How a component is implemented at the **code** level (e.g. classes, methods, functions).

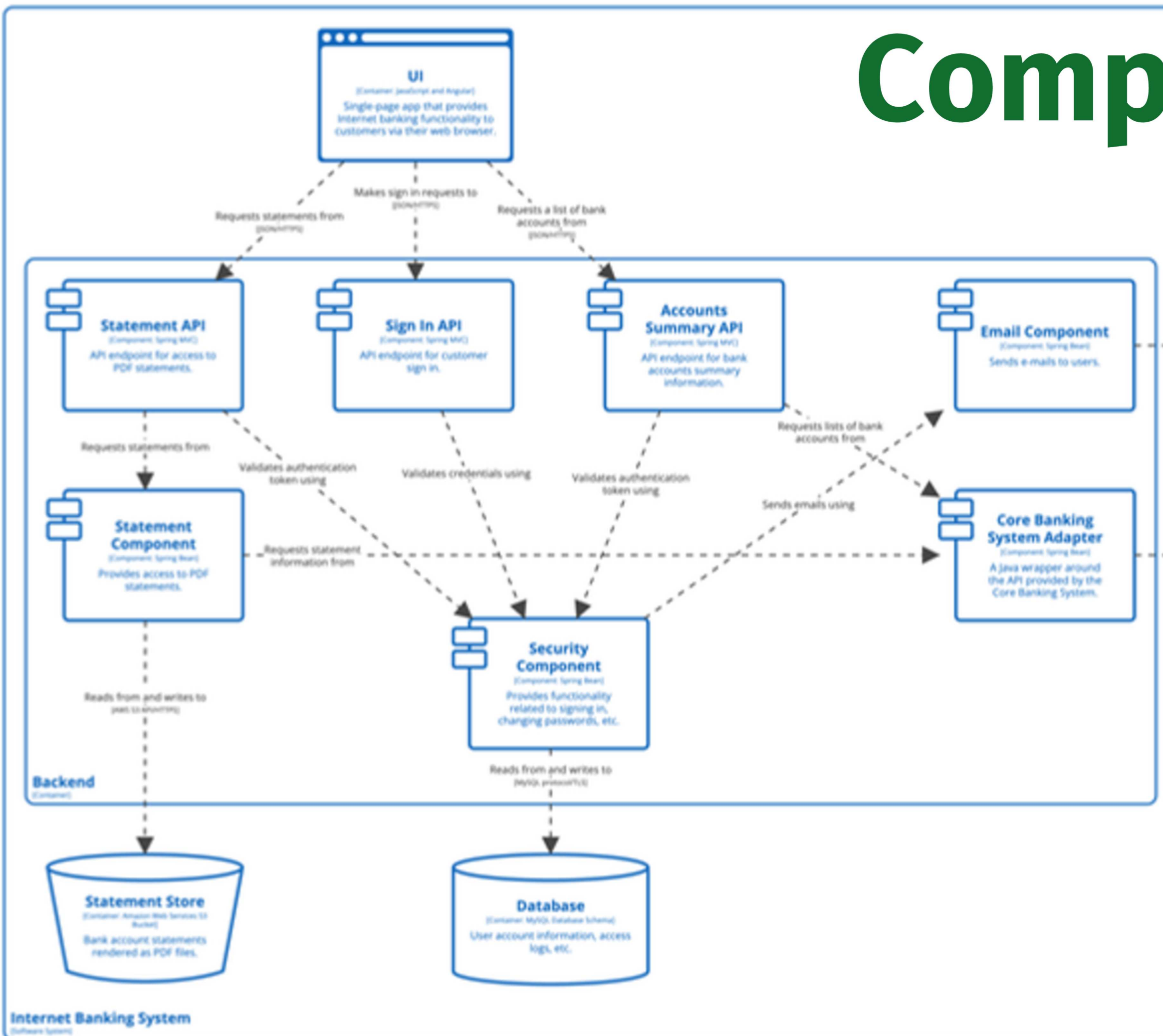
Containers



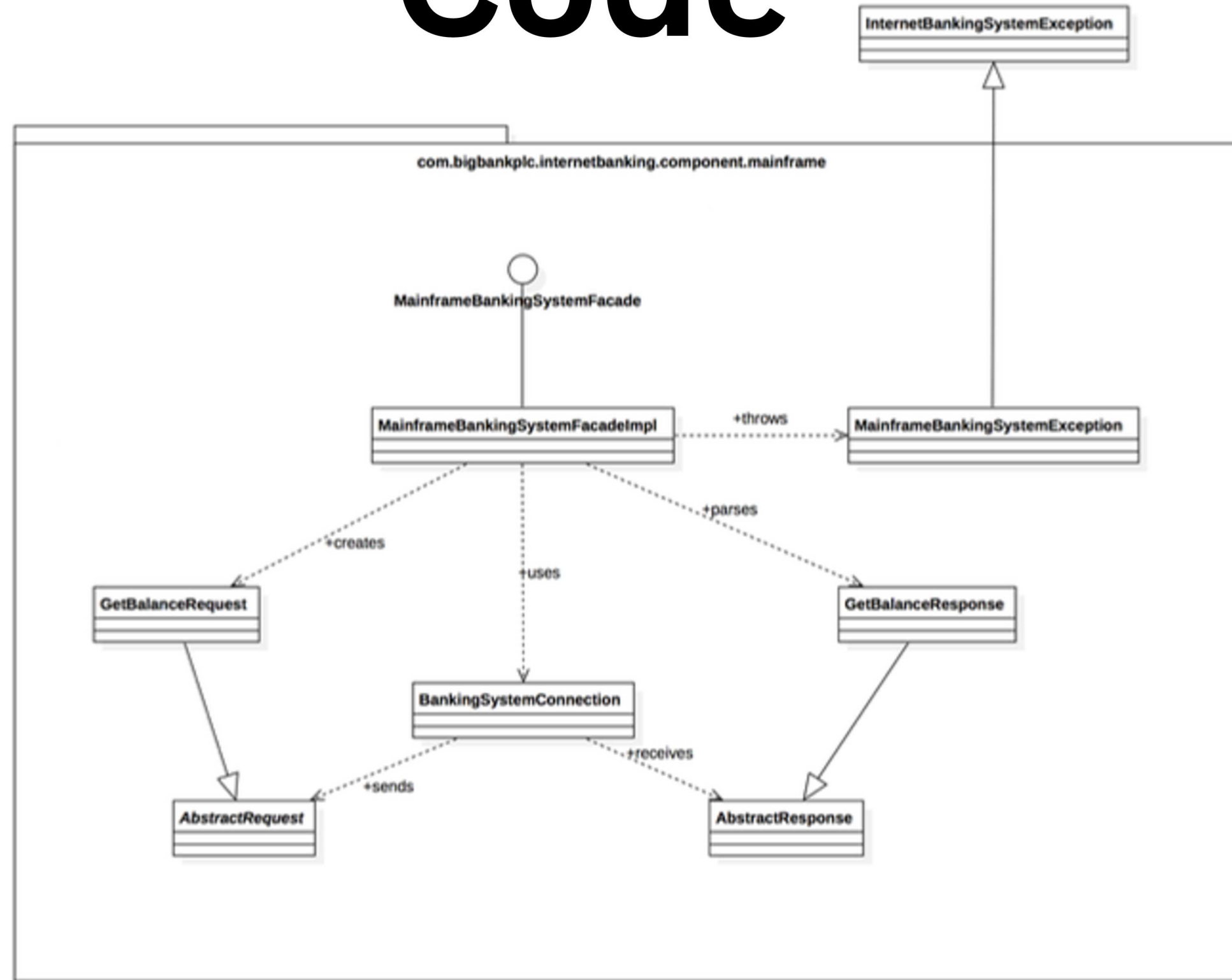
- What are the major building blocks?
- What are their responsibilities
- How do they communicate?



Components



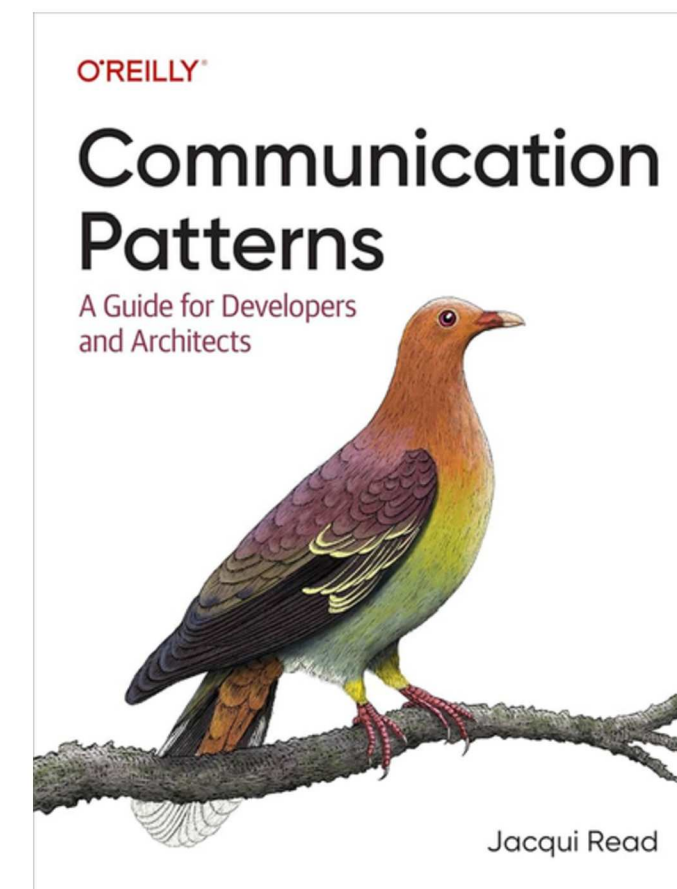
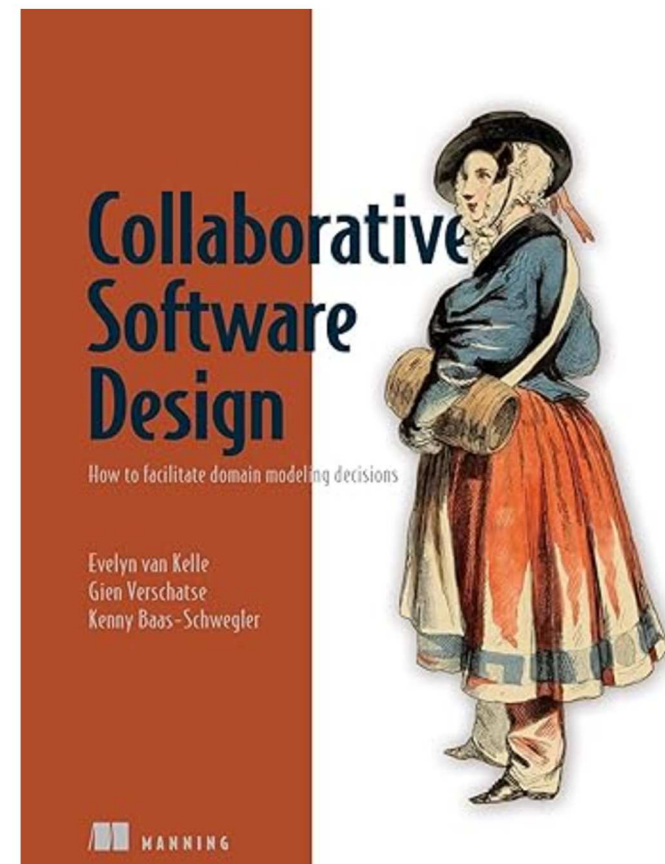
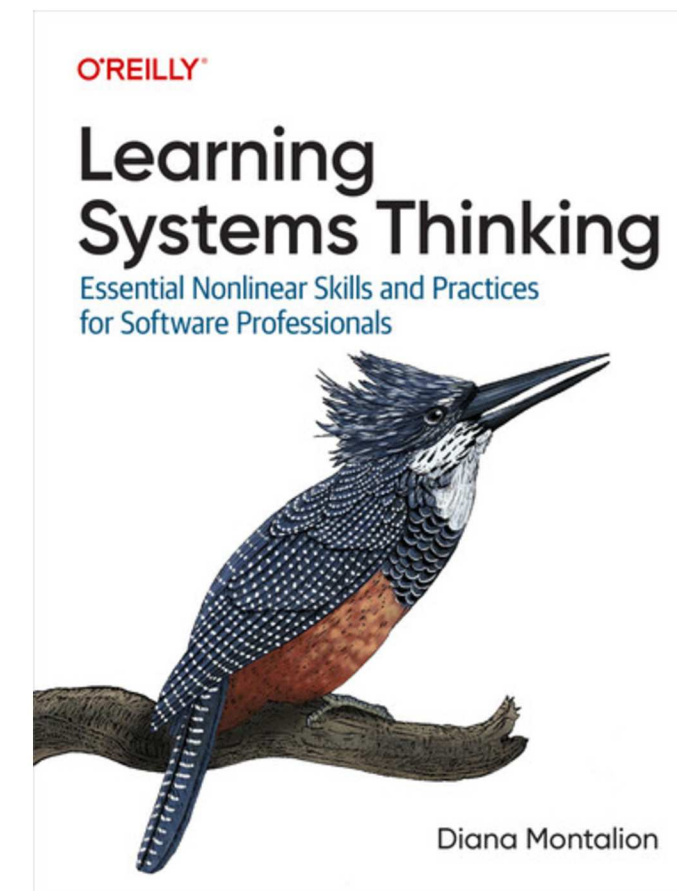
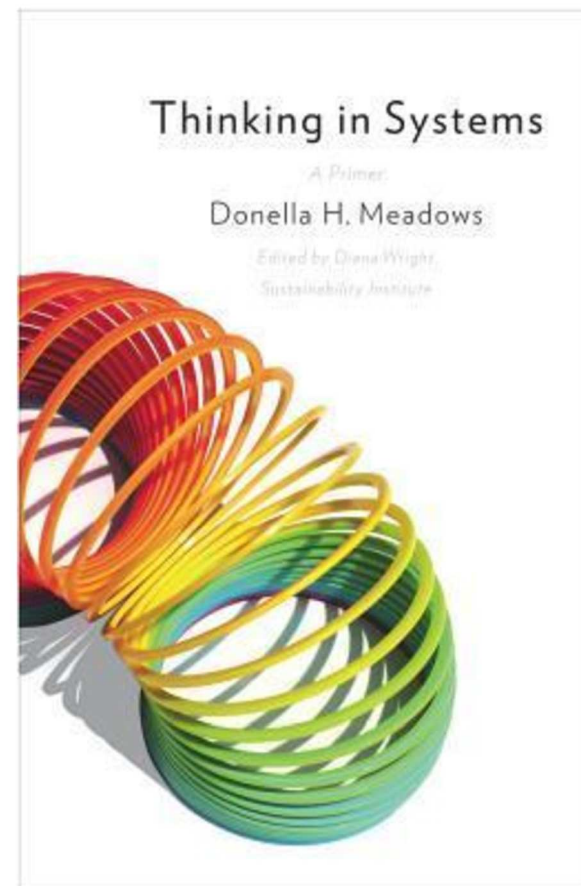
Code*



*Generate this one

Resources

.....





Thank You!



Questions?



roundcrisis.com



/in/magnorsky



@types.pl@roundcrisis



@roundcrisis.com



More LAST

Welcome to LAST Conference Melbourne



Alexandra Stokes & Nerine Erasmus, Gareth Lees-West, Emma Carter, Gabor Devenyi, Dan Prager, Megan Davis, Pavi De Alwis, Ani Moller, Andrea Magnorsky, Lara Woodhead, Kristina Cockbill, Tim Newbold, Olga Belokurova, Gretchen Scott, Natalia Carusi, Rick Giner & Daniel Bertram, Jay Jeong, Pete Cohen, Nhung Nguyen, Craig Brown, Manisha de Silva, Graeme Mills, Tanuj Ruhai, Ben Hogan & Zoe Hogan-West, Kevin Chan, (Hello to) Jason Isaacs

SUPPORTERS
endava, GiveMore, Everest engineering, RMIT forward, multitudes

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SPOTLIGHT SESSIONS
Layla Foord & Nigel Dalton, Adel Smee, Vivek Katial

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SIGNAL

Feedback



Andrea Magnorsky
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